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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,202	10/20/2005	Kazuo Tanaka	125385	1221
25944 OLIFF & BERI	7590 02/01/200 RIDGE, PLC	7	EXAMINER	
P.O. BOX 1992	28		PAIK, SANG YEOP	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			3742	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/550,202	TANAKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sang Y. Paik	3742				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 16(a). In no event, however, may a reply ill apply and will expire SIX (6) MONTHS cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. SONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	prosecution as to the ments is					
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 5-13</u> is/are rejected.	<u></u>					
7) Claim(s) 4 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers		·				
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Sumr	mary (PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/21/05. 5) Information Disclosure Statement Application 6) Other:						
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3, 5, 6, 12 and 13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sakomoto et al (US 6,495,805).

Sakomoto shows the substrate processing device with heating means having a plurality of heating zones for heating a substrate in a processing chamber, temperature detection means with a first and second temperature detection means for detecting the temperature in the chamber, substrate temperature prediction means having a predetermined or virtual model used for setting or estimating a temperature trajectory of heated wafers, control means which determines and corrects a temperature trajectory based on the measured or detected temperature and a temporary temperature trajectory, the control means further determines or sets a subsequent (second heat treatment) process based on a previously measured (first heat treatment) heat process and a temporary subsequent temperature trajectory. The recited "predicted temperature" is equivalent or, alternatively, is obvious with the trajectory temperature of Sakomoto that is set in the control means which is further used to predict or project in advance a subsequent operating heating temperature.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto et al (US 6,495,805) in view of Suzuki (US 5,593,608).

Sakamoto shows the device and method claimed except for the control means which controls the output of the heating means by displaying or recording.

It is well known, as shown by Suzuki, that the temperatures detected by temperature means are stored in a memory which is further controlled by the control means to control the heating means.

In view of Suzuki, it would have been obvious to one of ordinary skill in the art to adapt Sakamoto with the temperature controller which outputs the detected temperature to a memory for recording such detected temperature that is subsequently processed by the control means.

Allowable Subject Matter

- 5. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y. Paik whose telephone number is 571-272-4783. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sang Y Paik **Primary Examiner** Art Unit 3742

syp